

10/542311  
JC17 Rec'd PCT/PTO 15 JUL 2005

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

App. No. : (Nat'l. Stage of PCT/JP2004/004800)  
Applicant : Nobuhiro Ota, et al.  
Filed : On even date herewith  
Tech. Cntr./Art Unit : (To be assigned)  
Examiner : (To be assigned)  
  
Docket No. : 39.052  
Customer No. : 29453

Honorable Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

This constitutes an Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.97 and 1.98. The documents listed on the accompanying Form PTO/SB/08A are hereby brought to the Examiner's attention in the patent application identified above.

**REMARKS**

Cite Nos. F1 through F5, as listed on Form PTO/SB/08A, were cited in the International Search Report for PCT/JP2004/004800, of which the presently submitted patent application is to be the National Stage. Among these, Cite Nos. F1 through F5 are not in English.

Furthermore, Cite Nos. F6 through F14, and Cite Nos. O2 through O4 are not in English either.

**Concise Explanation of Relevance/Copy of Translation**  
**Pursuant to 37 C.F.R. § 1.98(a)(3)**

As a concise explanation of the relevance of Cite Nos. F1 through F5, a copy of the International Search Report, in Japanese, accompanies this paper. Although the Search Report is not in English, the categories designating the relevancy as assessed by the International Searching Authority are readily apparent next to the corresponding document identification numbers on the report.

Cite No. F5 is also discussed in the Background of the present specification, in the paragraph that begins in line 16 on page 2, and in the paragraph that begins in line 3 on page 3.

The relevance of non-English Cite Nos. F6 through F8 and Cite Nos. O2 through O4 is discussed in the Background, in the order F6, (O1), F7, F8, (F5), O2, (F5), O3, O4, (Cite No. U1 also being discussed therein, in the first paragraph of the Background).

The relevance of non-English Cite Nos. F9 and F10 is discussed—together with Cite Nos. U1 and U2—in the paragraph that begins in line 23 on page 3, and continues through line 6 on page 4, in the Background of the present specification, where in the next paragraph, the relevance of Cite Nos. F9 and F10 alone is detailed.

As to the relevance of non-English Cite Nos. F11 through F13, English abstracts of these references are available on the Japanese Patent Office website through Patent Abstracts of Japan (PAJ), and a copy of the corresponding PAJ abstract is attached to the back of each.

Furthermore, English abstracts of Cite Nos. F1 through F5 and F7 through F13 are likewise available, and a copy of the corresponding PAJ abstract is attached to the back of each of these references. (Note that Cite No. F8 is a published Japanese patent, as opposed to a published Japanese unexamined patent application, which is what Cite Nos. F1 through F5, F7, and F9 through F13 are. Nevertheless, the English abstract for Cite No. F8 is taken from the published corresponding unexamined patent application.)

As to the relevance of Cite No. F14, this reference is a published examined Japanese patent application, and as such no PAJ abstract is available. Nevertheless, a Derwent abstract is available, attached to the back of the reference, from which the presence of a corresponding U.S. patent by the same applicant is apparent. Accordingly, in addition to the Derwent abstract, a copy of U.S. Pat. No. 4,599,284 is attached to the back of this reference.

Like Cite No. F14, Cite No. F6 is a published examined Japanese patent application, and likewise a Derwent abstract is attached to the back, to further assist the examiner in considering the reference

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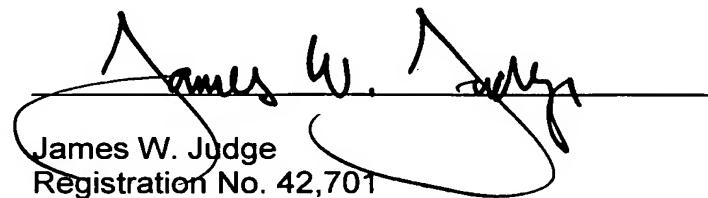
Nat'l. Stage of Int'l. App. No. PCT/JP2004/004800  
IDS Submission dated July 11, 2005

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The Examiner is respectfully requested to consider these references, to indicate so on the accompanying Form PTO/SB/08A, and to make the document of record in the present application.

Respectfully submitted,

Date: July 11, '05



James W. Judge  
Registration No. 42,701

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 1 of 4

**Complete if Known**

Application Number	Nat'l Stage of PCT/JP2004/004800
Filing Date	April 1, 2004 [371(c) date]
First Named Inventor	Nobuhiro Ota
Art Unit	(To be assigned)
Examiner Name	(To be assigned)
Attorney Docket Number	39 052

## U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>8</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	F1	JP-2004-087402-A	03-18-2004	Sony		✓
	F2	JP-2003-115293-A	04-18-2003	NEC		✓
	F3	JP-2003-303618-A	10-24-2003	NEC		✓
	F4	JP-2003-045415-A	02-14-2003	NEC		✓
	F5	JP-2001-250580-A	09-14-2001	Tstsumisuna		✓
	F6	JP-H05-048582-B2	07-21-1993	Union Carbide Corp		✓

Examiner Signature		Date Considered	
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	F7	JP-H04-202024-A	07-22-1992	Matsushita Electric		✓
	F8	JP-3,343,936	08-30-2002	Matsushita Electric		✓
	F9	JP-2000-340257-A	12-08-2000	Sumitomo Electric		✓
	F10	JP-2002-329524-A	11-15-2002	Sumitomo Electric		✓
	F11	JP-S59-073851-A	04-26-1984	Sanyo Electric		✓
	F12	JP-H04-231346-A	08-20-1992	Eveready Battery		✓

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<sup>7</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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Examiner Name	(To be assigned)
Attorney Docket Number	39_052

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	F13	JP-H06-290773-A	10-18-1994	Nippondenso		✓
	F14	JP-H06-054687-B2	07-20-1994	Union Carbide		✓

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Sheet	4	of	4	Attorney Docket Number	39.052

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	O1	J. H. KENNEDY, et al., "Ionically Conductive Sulfide-based Lithium Glasses," Jornal of Non-Crystalline Solids, 123 (1990), pp. 328-338	
	O2	Y. YONEDA, et al., "Mixed anion effect on lithium ion conductivity of amorphous materials in the system Li <sub>2</sub> O-Li <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> ," Extended abstracts of presentations at the 28th Symposium on Solid-State Ionics, November 2002, pp. 24-25	✓
	O3	S. HAMA, et al., "Synthesis and High Lithium Ion Conductivity of New Glass-ceramics in the System Li <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> ," Extended abstracts of presentations at the 26th Symposium on Solid-State Ionics, November 2000, pp. 174-175	✓
	O4	M. MURAYAMA, et al., "Synthesis, Property and Structure of New Lithium Ionic Conductor, Thio-LISICON; Lithium Thiophosphate System" Extended abstracts of presentations at the 26th Symposium on Solid-State Ionics, November 2000, pp. 178-179	✓
	O5	N. MACHIDA, et al., "Mechano-chemical Synthesis of Lithium Ion Conducting Materials in the System Li <sub>2</sub> O-Li <sub>2</sub> S-P <sub>2</sub> S <sub>5</sub> ," J. Jpn. Soc. Powder Powder Metallurgy, Vol. 51, No. 2, February 2004, pp. 91-97	

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